

PTO/SB/088 (08-03)

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Substitute for form 1449/PTO

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

3

Application Number

10/675,780

Filing Date

September 30, 2003

First Named Inventor

Ashim Kumar Ghosh

Art Unit

~~1552~~ 1733

Examiner Name

WOOD

Attorney Docket Number

SABI-30145 (STC 03-0008)

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
afw	AA	KAEDING, W.W., et al., Selective Alkylation of Toluene to Produce para-Xylene, Journal of Catalysis 67, 1981, pp. 159-174. ★	
	AB	HIBINO, T., et al., Shape-Selectivity Over HZSM-5 Modified by Chemical Vapor Deposition of Silicon Alkoxide, Journal of Catalysis 128, 1991, pp. 551-558. ★	
	AC	YASHIMA, T., et al., Selective Formation of p-Xylene by Alkylation of Toluene with Methanol on ZSM-5 Type Zeolites, Stud. Surf. Sci. Catal., 1981, 7, pp. 739-751. ★	
	AD	SAYED, M. B., et al., The Effect of Modification with Boron on the Catalytic Activity and Selectivity of HZSM-5, Journal of Catalysis 101, 1986, pp. 43-55. ★	
	AE	KIM, J.-H, et al., Generation of Shape-Selectivity of p-Xylene Formation in the Synthesized ZSM-5 Zeolites, Journal of Catalysis 173, 1998, pp. 433-439. ★	
	AF	VINEK, H., et al., Production and Reactions of Xylenes over H-ZSM-5, Journal of Molecular Catalysis, 64, 1991, pp. 23-39. ★	
	AG	CHEN, N.Y., Reactions of Mixtures of Toluene and Methanol Over ZSM-5, Journal of Catalysis 114, 1988, pp. 17-22. ★	
	AH	YOUNG, L.B., et al., Shape Selective Reactions with Zeolite Catalysts, Journal of Catalysis 76, 1982, pp. 418-432. ★	
	AI	NIRULA, S.C., Para-Xylene From Toluene and Methanol, Process Economics Program, 1983, pp. 1-23, SRI International, Menlo Park, CA. ★	
afw	AJ	WANG, I., et al., Para-selectivity of Diaklybenzenes over Modified HZSM-5 by Vapour Phase Deposition of Silica, Applied Catalysis, 54, 1989, 257-266. ★	

Examiner  
Signature

WOOD

Date

Considered

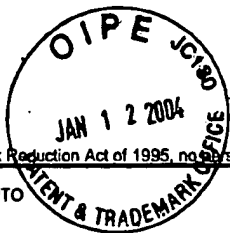
4/13/05

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE  
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Sheet

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Application Number

10/675,780

Filing Date

September 30, 2003

First Named Inventor

Ashim Kumar Ghosh

Art Unit

~~1754~~ 1755

Examiner Name

WJOPP

Attorney Docket Number

SABI-30145 (STC 03-0008)

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CEM	AK	DAS, J., et al., Ethylbenzene Dealkylation and Realkylation over Pore Size Regulated MFI Zeolite, Ind. Eng. Chem. Res., 32, 1993, pp. 2525-2529. *	
WJ	AL	KIM, J.-H., et al., Para-selectivity of Metallosilicates with MFI Zeolite Structure Zeolites, Vol. 11, 1991, pp. 59-63. *	
CEM	AM	KIM, J.-H., et al., Preparation of Highly Para-selective Metallosilicate Catalysts for Alkylation of Ethylbenzene with Ethanol, Applied Catalysis A:100, 1993, pp. 27-36. *	

Examiner  
Signature

WJOPP

Date  
Considered

4/13/05

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete If Known**

Application Number	10/675,780
Filing Date	September 30, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1754 1755
Examiner Name	WJOPP
Attorney Docket Number	SABI-30145 (STC-03-0008)

Sheet 1 of 9

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
C/N		US- 4,548,914	10-22-1985	Chu	
		US- 4,590,321	05-20-1986	Chu	
		US- 4,623,530	11-18-1986	Cullo et al.	
		US- 4,623,533	11-18-1986	Young	
		US- 4,636,106	01-20-1987	Pieters et al.	
		US- 4,665,251	06-12-1987	Chu	
		US- 4,670,616	06-02-1987	De Simone et al.	
		US- 4,673,767	06-16-1987	Nimry et al.	
		US- 4,694,114	09-15-1987	Chu et al.	
		US- 4,695,666	09-22-1987	Chao et al.	
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		US- 4,704,495	11-03-1987	Dessau	
		US- 4,716,135	12-29-1987	Chen	
		US- 4,721,827	01-26-1988	Cullo et al.	
		US- 4,727,209	02-23-1988	Chao	
		US- 4,746,763	05-24-1988	Kocal	
		US- 4,758,328	07-19-1988	Young	
		US- 4,761,513	08-02-1988	Stacey	
		US- 4,847,223	07-11-1989	Le Van Mao et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature	WJOPP	Date Considered	4/13/05
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/675,780
Filing Date	September 30, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1254-1755
Examiner Name	WOOD
Attorney Docket Number	SABI-30145 (STC-03-0008)

Sheet 12 of 9

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
WJN		US- 4,891,930	08-29-1980	Cottrell et al.	
		US- 4,873,087	10-10-1989	Valyocsik et al.	
		US- 4,891,187	01-02-1990	Derouane et al.	
		US- 4,891,467	01-02-1990	Sikkenga	
		US- 4,902,406	02-20-1990	Valyocsik	
		US- 4,912,073	03-27-1990	Chu	
		US- 4,914,067	04-03-1990	Pellet et al.	
		US- 4,935,574	06-19-1990	D'Amore et al.	
		US- 4,962,266	10-09-1990	Fraenkel et al.	
		US- 4,973,781	11-27-1990	Valyocsik et al.	
		US- 5,041,402	08-20-1991	Casci et al.	
		US- 5,043,502	08-27-1991	Martindale et al.	
		US- 5,047,141	09-10-1991	Chu	
		US- 5,068,483	11-26-1991	Barthomeuf et al.	
		US- 5,094,996	03-10-1992	Butt et al.	
		US- 5,105,047	04-14-1992	Waller	
		US- 5,108,579	04-28-1992	Casci	
		US- 5,110,776	05-05-1992	Chitnis et al.	
WJN		US- 5,124,299	06-23-1992	Waller	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>

Examiner Signature	WOOD	Date Considered	4/13/05
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 5 of 9

**Complete if Known**

Application Number	10/875,780
Filing Date	September 30, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1754 1755
Examiner Name	W000
Attorney Docket Number	SABI-30145 (STC-03-0008)

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
W000		US- 5,541,146	07-30-1996	Chang et al.	
		US- 5,561,095	10-01-1996	Chen et al.	
		US- 5,563,310	10-08-1996	Chang et al.	
		US- 5,589,805	10-29-1996	Beck et al.	
		US- 5,571,768	11-06-1996	Chang et al.	
		US- 5,573,746	11-12-1996	Chen	
		US- 5,576,256	11-19-1996	Monque et al.	
		US- 5,607,888	03-04-1997	Chang et al.	
		US- 5,607,890	03-04-1997	Chen et al.	
		US- 5,646,314	07-08-1997	Crocco et al.	
		US- 5,648,580	07-15-1997	Chen et al.	
		US- 5,658,454	08-19-1997	Absil et al.	
		US- 5,675,047	10-07-1997	Beck et al.	
		US- 5,689,024	11-18-1997	Schmitt	
		US- 5,698,756	12-16-1997	Beck et al.	
		US- 5,780,563	07-14-1998	Chen et al.	
		US- 5,789,335	08-04-1998	Chen et al.	
		US- 5,811,613	09-22-1998	Bhat et al.	
		US- 5,833,840	10-10-1998	Absil et al.	

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Sheet 6 of 9

**Complete if Known**

Application Number	10/675,780
Filing Date	September 30, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1754 1753
Examiner Name	WOOD
Attorney Docket Number	SABI-30145 (STC-03-0008)

U. S. PATENT DOCUMENTS					
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W		US- 5,902,919	05-11-1999	Chen et al.	
		US- 5,905,051	05-18-1999	Wu et al.	
		US- 5,922,922	07-13-1999	Harris et al.	
		US- 5,925,586	07-20-1999	Sun	
		US- 5,939,597	08-17-1999	Dessau et al.	
		US- 5,951,963	09-14-1999	He et al.	
		US- 5,955,841	09-21-1999	Chen et al.	
		US- 5,994,603	11-30-1999	Mohr et al.	
		US- 6,034,283	03-07-2000	Ban et al.	
		US- 6,040,257	03-21-2000	Drake et al.	
		US- 6,046,128	04-04-2000	Kisen et al.	
		US- 6,047,544	04-11-2000	Yamamoto et al.	
		US- 6,048,818	04-11-2000	Brown et al.	
		US- 6,060,633	05-09-2000	Chen et al.	
		US- 6,074,975	06-13-2000	Yao et al.	
		US- 6,080,303	08-27-2000	Cao et al.	
		US- 6,080,698	08-27-2000	Zhang et al.	
		US- 6,083,865	07-04-2000	Drake et al.	
		US- 6,090,274	07-18-2000	Wu et al.	

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/675,780
Filing Date	September 30, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	<del>1754</del> 1753
Examiner Name	Woot
Attorney Docket Number	SAB-30145 (STC-03-0008)

## U. S. PATENT DOCUMENTS

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		Number-Kind Code* # Invent			
CML		US- 6,100,437	08-08-2000	Koehl et al.	
		US- 6,124,227	09-26-2000	Yao et al.	
		US- 6,150,293	11-21-2000	Verduijn et al.	
		US- 6,156,949	12-05-2000	Brown et al.	
		US- 6,160,191	12-12-2000	Smith et al.	
		US- 6,187,982	02-13-2001	Beck et al.	
		US- 6,211,104	04-03-2001	Shi et al.	
		US- 6,217,748	04-17-2001	Hatanaka et al.	
		US- 6,251,283	06-26-2001	Hatanaka et al.	
		US- 6,294,493	09-25-2001	Strohmalier et al.	
		US- 6,300,636	10-09-2001	van den Berge et al.	
		US- 6,308,790	10-23-2001	Rodriguez et al.	
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**FOREIGN PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

**Date Considered**

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/675,780
Filing Date	September 30, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1754-1755
Examiner Name	WJSD
Attorney Docket Number	SABI-30145 (STC-03-0008)

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U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Foreign Patent Document Country Code* Number* Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature	WJSD	Date Considered	4/13/05
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 9

of 9

**Complete if Known**

Application Number	10/675,780
Filing Date	September 30, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	4254 1753
Examiner Name	1002
Attorney Docket Number	SABI-30145 (STC-03-0008)

## U. S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

Date	Considered	By	Remarks
10/10/19	10/10/19	[Signature]	[Signature]

4/13/05

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